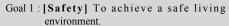
## Chapter 11: Technical R&D Supporting Japan in the 21st Century

## [Promoting technical R&D]

Based on its basic plan on technical R&D, MLIT is promoting cross-sectoral and integrated R&D of technologies in close partnership with the ministries and agencies concerned, universities, independent administrative institutions, and the private sector. The ministry is also promoting the use of technologies thus developed in public works projects and in construction and public transport sectors.

## Gist of the MLIT technology basic plan

## Five goals concerning our daily activities



- Goal 2: [The environment] To restore an favorable environment and build a beautiful and sustainable country
- Goal 3: [Cost] To achieve a comfortable and inexpensive life
- Goal 4: [International competitiveness] To achieve a vibrant society with international competitiveness
- Goal 5: [Participation] To achieve a society where anyone can feel a sense of membership in it.

## Ten priority projects designed to meet the five goals

- Reinforcement of earthquake disaster countermeasures focusing on the Fokai, Tonankai, and Nankai regions
- Developing integrated technologies to reduce and prevent accidents on land, at sea and in air
- Developing eco-friendly, low-emission transport facilities
- Developing technologies to achieve infrastructure development that can cohabit with nature
- Developing technologies to create a recycle-oriented society
- Creation of a global-scale reproduction database on environmental change and elucidation of the machanism of global warming
- Developing technologies that allow for deep underground utilization that is safe and inexpensive Developing automation technologies, including construction robots
- Developing technologies to assess the robustness of infrastructure with the nondestructive inspection approach
- 10. Opening up a new frontier in space and ocean

# [Improving construction management skills]

MLIT is working to improve its cost estimation skills in public works projects and apply ISO management systems. For more efficient infrastructure development, the ministry is also working to upgrade construction mechanization, as well as developing and promoting machinery and construction technologies that are eco-friendly, safe and easy to operate.